

Appendix A

Trust Resources and Other Species and Habitats of Special Management Concern

Codes used in Species Lists

Global Rank (from the Nature Conservancy)

G1 - Extremely rare and critically imperiled with 5 or fewer occurrences or very few remaining individuals; or because of some factor(s) making it especially vulnerable to extinction.

G2 - Very rare and imperiled with 6 to 20 occurrences or few remaining individuals; or because of some factor(s) making it vulnerable to extinction.

G3 - Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range; or vulnerable to extinction because of other factors. Usually fewer than 100 occurrences are documented.

G4 - Common and apparently secure globally, though it may be rare in parts of its range, especially at the periphery.

G5 - Very common and demonstrably secure globally, though it may be rare in parts of its range, especially at the periphery.

GH - Formerly part of the world's fauna with some expectation that it may be rediscovered; generally applies to species that have not been verified for an extended period (usually >15 years) and for which some inventory has been attempted recently.

GX - Believed to be extinct throughout its range with virtually no likelihood of rediscovery.

GU - Possibly rare, but status uncertain and more data needed.

G? - Unranked, or, if following a ranking, rank uncertain (e.g., G3?).

G_G_ - The rank is uncertain, but considered to be within the indicated range of ranks (also, T_T_).

G_Q - Taxon has a questionable taxonomic assignment (e.g., G3Q).

G_T_ - Signifies the rank of a subspecies (e.g., G5T1 would apply to a subspecies if the species is demonstrably secure globally (G5) but the subspecies warrants a rank of T1, critically imperiled.)

State Rank

S1 - Extremely rare and critically imperiled with 5 or fewer occurrences or very few remaining individuals in Virginia; or because of some factor(s) making it especially vulnerable to extirpation in Virginia.

S2 - Very rare and imperiled with 6 to 20 occurrences or few remaining individuals in Virginia; or because of some factor(s) making it vulnerable to extirpation in Virginia.

S3 - Rare to uncommon in Virginia with between 20 and 100 occurrences; may have fewer occurrences if found to be common or abundant at some of these locations; may be somewhat vulnerable to extirpation in Virginia.

SH - Formerly part of Virginia's fauna with some expectation that it may be rediscovered; generally applies to species that have not been verified in the state for an extended period (usually >15 years) and for which some inventory has been attempted recently.

SX - Believed to be extirpated from Virginia with virtually no likelihood of rediscovery.

SR - Reported for Virginia, but without persuasive documentation that would provide a basis for either accepting or rejecting the report.

SU - Possibly rare, but status uncertain and more data needed.

S_? - Rank uncertain. For example the rank S2? denotes a species that may range from S1 to S3.

S_S_ - Rank is uncertain, but considered to be within the indicated range of ranks.

S_B/S_N - Breeding and nonbreeding status of an animal (primarily used for birds) in Virginia, when they differ.

SZN - Long distance migrant whose occurrences outside of the breeding season are not monitored or a species whose wintering populations are transitory and usually do not occur regularly at specific localities.

SN? - Long distance migrant that has been recorded north and south of Virginia waters and should eventually be found along the coast of Virginia.

SA - State accidental; not a regular member of the Virginia fauna but recorded in the state at least once.

Federal Status

LE - Listed Endangered. A taxon threatened with extinction throughout all or a significant portion of its range.

LT - Listed Threatened. A taxon likely to become endangered in the foreseeable future.

LT/SA - Listed as Threatened due to Similarity of Appearance. The species so closely resembles an endangered or threatened species or population that enforcement personnel of the U.S. Fish and Wildlife Service cannot readily distinguish between the taxa (e.g., the northern population of the bog turtle is federally listed as endangered, but turtles from the southern population, which includes Virginia, are not readily distinguishable from them).

LT/PDL - Listed as Threatened but proposed for delisting. The U.S. Fish and Wildlife Service has proposed that this species be removed from the list of Endangered and Threatened wildlife. However, at the present time, the species is still listed as Threatened pending further action and is thus protected under the Endangered Species Act.

PE - Proposed Endangered. A taxon proposed for listing as endangered.

PT - Proposed Threatened. A taxon proposed for listing as threatened.

C - Candidate. There is enough available information to propose the species for listing, but listing is “precluded by other pending proposals of higher priority”. (Formerly Candidate, Category 1)

State Status

LE - Listed Endangered; defined as a species that is in danger of extinction throughout all or a significant portion of its range.

LT - Listed Threatened; defined as a species that is likely to become endangered within the foreseeable future.

SC - Special Concern; animals that merit special concern according to the Virginia Department of Game and Inland Fisheries. This is not a legal category.

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
RARE PLANTS (Townsend 2001)					
<i>Amaranthus pumilus</i> Raf.	Seabeach amaranth	G2	SH	LT	
<i>Chamaesyce bombensis</i> (Jacq.) Dugand = <i>Euphobia ammannioides</i> Kunth	Southern sea sponge	G4G5	S2		
<i>Paspalum distichum</i> L.	Joint paspalum	G5	S1		
<i>Physalis walteri</i> Nutt	Dune ground-cherry	G4	S2		
<i>Rhynchospora colorata</i> (L.) H. Pfeffer	White-topped sedge	G5	S1		
Plant species on the State's Division of Natural Heritage's watch list					
<i>Aristida tuberculosa</i> Nutt.	Seabeach needlegrass	G5	S3		
<i>Bacopa monnieri</i> (L.) Pennell	Coastal water-hyssop	G5?	S3		
<i>Ilex vomitoria</i> Ait.	Yaupon holly	G5	S3		
<i>Lechea maritima</i> Leggett ex B.S.P. var. <i>virginica</i> Hodgson	Virginia beach pinweed	G5T3Q	S3		
<i>Leptochloa fascicularis</i> (Lam.) Gray var. <i>maritima</i> (Bickn.) Gleason	Long-awned sprangletop	G5T3T4	S3		
<i>Oenothera oakesiana</i> (Gray) J.W. Robbins ex S. Wats. & Coult.	Evening primrose	G4G5Q	SU		
<i>Polygonella articulata</i> (L.) Meisn.	Eastern jointwood	G5	S3		
<i>Sesuvium maritimum</i> (Walt.) B.S.P.	Sea-purslane	G5	S3		
<i>Suaeda linearis</i> (Ell.) Moq.	Tall sea blite	G5	S3		
<i>Uniola paniculata</i> L.	Sea oats	G5	S3		
<i>Zanthoxylum clava-herculis</i> L.	Southern prickly-ash	G5	S3		
RARE ANIMALS (Roble 2001)					
FISH					
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon	G3	S2	SC	
REPTILES					
<i>Caretta caretta</i>	Loggerhead sea turtle	G3	SIB, S1N	LT	LT
<i>Lepidochelys kempii</i>	Kemp's Ridley sea turtle	G1	S1N	LE	LE

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
BIRDS					
<i>Accipiter cooperii</i>	Cooper's hawk	G5	S2B/S3N		
<i>Actitis maculara</i>	Spotted sandpiper	G5	S2B/SZN		
<i>Aegolius acadicus</i>	Northern saw-whet owl	G5	S1B/S1N		SC
<i>Ammodramus caudacutus</i>	Saltmarsh sharp-tailed sparrow	G4	S2B/S3N		SC
<i>Ammodramus henslowii</i>	Henslow's sparrow	G4	S1B		LT
<i>Anas discors</i>	Blue-winged teal	G5	S1B/S2N		
<i>Anas strepera</i>	Gadwall	G5	S2B/S3N		
<i>Aquila chrysaetos</i>	Golden eagle	G5	SHB/S1N		
<i>Ardea alba</i>	Great egret	G5	S2B/S3N		SC
<i>Asio flammeus</i>	Short-eared owl	G5	S1B/S3N		
<i>Asio otus</i>	Long-eared owl	G5	S1		SC
<i>Bartramia longicauda</i>	Upland sandpiper	G5	S1B/SZN		LT
<i>Botaurus lentiginosus</i>	American bittern	G4	S1B/S2N		
<i>Carpodacus purpureus</i>	Purple finch	G5	S1B/S5N		SC
<i>Catharus guttatus</i>	Hermit thrush	G5	S1B/S5N		SC
<i>Catharus ustulatus</i>	Swainson's thrush	G5	S1B/SZN		
<i>Certhia americana</i>	Brown creeper	G5	S2S3B/S5N		SC
<i>Charadrius melodus</i>	Piping plover	G3	S2B/S1N	LT	LT
<i>Charadrius wilsonia</i>	Wilson's plover	G5	S1B/SZN		LE
<i>Chondestes grammacus</i>	Lark sparrow	G5	SHB/SZN		
<i>Circus cyaneus</i>	Northern harrier	G5	S1S2B/S2S4N		SC
<i>Cistothorus platensis</i>	Sedge wren	G5	S1B/S1S2N		SC
<i>Contopus borealis</i>	Olive-sided flycatcher	G4	SHB/SZN		
<i>Dendroica fusca</i>	Blackburnian warbler	G5	S2B/SZN		
<i>Dendroica magnolia</i>	Magnolia warbler	G5	S2B/SZN		SC
<i>Dolichonyx oryzivorus</i>	Bobolink	G5	S1B/SZN		
<i>Egretta caerulea</i>	Little blue heron	G5	S2B/S3N		SC

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
<i>Egretta thula</i>	Snowy egret	G5			
<i>Egretta tricolor</i>	Tricolored heron	G5	S2B/S3N		SC
<i>Empidonax alnorum</i>	Alder flycatcher	G5	S1B/SZN		SC
<i>Empidonax flaviventris</i>	Yellow-bellied flycatcher	G5	S1B/SZN		SC
<i>Eudocimus albus</i>	White ibis	G5	S1B/SAN		
<i>Falco peregrinus</i>	Peregrine falcon	G4	S1B/S2N		LE
<i>Fulica americana</i>	American coot	G5	S1BS5N		
<i>Gallinula chloropus</i>	Common moorhen	G5	S1B/S1N		SC
<i>Haliaeetus leucocephalus</i>	Bald eagle	G4	S2B/S3N	LT/PDL	LE
<i>Himantopus mexicanus</i>	Black-necked stilt	G5	S1B		
<i>Ictinia mississippiensis</i>	Mississippi kite	G5	S1B		
<i>Ixobrychus exilis</i>	Least bittern	G5	S2S3B/S3N		
<i>Lanius ludovicianus</i>	Loggerhead shrike	G4	S2B/S3N		LT
<i>Laterallus jamaicensis</i>	Black rail	G4	S2B/S2N		
<i>Limnothlypis swainsonii</i>	Swainson's warbler	G4	S2B/SZN		SC
<i>Loxia curvirostra</i>	Red crossbill	G5	S1B/SZN		SC
<i>Melospiza georgiana</i>	Swamp sparrow	G5	S1B/S4S5N		
<i>Mergus merganser</i>	Common merganser	G5	S1B/S4N		
<i>Nyctanassa violacea</i> = <i>Nycticorax violaceus</i>	Yellow-crowned night-heron	G5	S2B/S3N		SC
<i>Nycticorax nycticorax</i>	Black-crowned night-heron	G5	S2S3B/S4N		
<i>Oporonis philadelphia</i>	Mourning warbler	G5	S1B/SZN		SC
<i>Pelecanus occidentalis</i>	Brown pelican	G4	S1B/S3N		SC
<i>Phalacrocorax auritus</i>	Double-crested cormorant	G5	S1B/S4N		
<i>Plegadis falcinellus</i>	Glossy ibis	G5	S2B/S1N		SC
<i>Podilymbus podiceps</i>	Pied-billed grebe	G5	S2B/S3N		
<i>Porzana carolina</i>	Sora	G5	S1B/S2N		
<i>Rallus elegans</i>	King rail	G4G5	S2B/S3B		
<i>Rallus limicola</i>	Virginia rail	G5	S2B/S3N		

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<i>Regulus satrapa</i>	Golden-crowned kinglet	G5	S2B/S5N		SC
<i>Rynchops niger</i>	Black skimmer	G5	S2B/S1N		
<i>Sitta canadensis</i>	Red-breasted nuthatch	G5	S2B/S4N		SC
<i>Sphyrapicus varius</i>	Yellow-bellied sapsucker	G5	S1B/S4N		
<i>Sterna antillarum</i>	Least tern	G4	S2B/SZN		SC
<i>Sterna caspia</i>	Caspian tern	G5	S1B/S2N		SC
<i>Sterna maxima</i>	Royal tern	G5	S2B/SZN		
<i>Sterna nilotica</i>	Gull-billed tern	G5	S2B/SZN		LT
<i>Sterna sandivicensis</i>	Sandwich tern	G5	S1B/SZN		SC
<i>Troglodytes troglodytes</i>	Winter wren	G5	S2B/S4N		SC
<i>Vermivora ruficapilla</i>	Nashville warbler	G5	S1B/SZN		
MAMMALS					
<i>Sylvilagus floridanus hitchnsi</i>	Smith Island cottontail	G5THQ	SH		
ODONATA (Dragonflies & Damselflies)					
<i>Anax longipes</i>	Comet darner	G5	S2S3		
<i>Celithemis verna</i>	Double-ringed pennant	G5	S2S3		
<i>Cordulegaster diastatops</i>	Delta-spotted spiketail	G5	S1		
<i>Enallagma dubium</i>	Burgundy bluet	G5	S2		
<i>Nannothemis bella</i>	Elfin skimmer	G4	S1		
<i>Nehalennia gracilis</i>	Sphagnum sprite	G5	S2		
<i>Nehalennia intergricollis</i>	Southern sprite	G5	S2		
<i>Somatochlora filosa</i>	Fine-lined emerald	G5	S2		
<i>Somatochlora provocans</i>	Treetop emerald	G4	S2		
<i>Sympetrum janae</i>	Jane's meadowhawk	G5	SH		
COLEOPTERA (Beetles)					
<i>Cicindela dorsalis dorsalis</i>	Northeastern beach tiger beetle	G4T2	S2	LT	
<i>Cicindela trifasciata</i>	Tiger beetle	G5	S1		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
HETEROPTERA					
<i>Bothynotus johnstoni</i>	Mirid bug	G3	S1S3		
<i>Botocudo modestus</i>	Seed bug	G5	S1S3		
<i>Pycnoderiella virginiana</i>	Seashore plant bug	GU	SU		
<i>Ploiaria carolina</i>	Carolina thread-legged bug	G4?	S1S3		
<i>Ploiaria hirticornis</i>	Assassin bug	G3?	S1S3		
<i>Pnirontis brimleyi</i>	Assassin bug	G2	S1S3		
<i>Ramphocorixa acuminata</i>	Acuminate water boatman	G4	S1		
<i>Ranatra drakei</i>	Drake's water scorpion	G4	S1S3		
LEPIDOPTERA					
Butterflies and skippers					
<i>Caliphelis virginiensis</i>	Little metalmark	G4	S1S2		
<i>Callophrys irus</i>	Frosted elfin	G3	S1		
<i>Lycaena hyllus</i>	Bronze copper	G5	S1		
<i>Megathymus yuccae</i>	Yucca giant skipper	G4	SH		
Moths					
<i>Drasteria graphica atlantica</i>	Atlantic graphic moth	G4T4	S1S3		
<i>Faronta rubripennis</i>	Pink-streak moth	G3G4	S1S3		
<i>Meropleon cosmion</i>	Noctuid moth	G4	S1S3		
<i>Papaipema araliae</i>	Aralia shoot borer moth	G3G4	S2S3		
<i>Papaipema duovata</i>	Seaside goldenrod borer moth	G4	S1S3		
<i>Papaipema stenocelis</i>	Chain fern borer moth	G4	S1S3		
<i>Papaipema speciosissima</i>	Osmunda stern borer moth	G4	S1S3		
<i>Schinia siren</i>	Flower moth	G?	S1S2		